HW#28: Midpoint Application and Quiz Review

Geometry

Due Date: Friday, Oct 3rd, 2014

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| --- | --- | --- | --- |
| 1) A median of a triangle is a line segment from one vertex to the midpoint of the opposite side. For example, A is a vertex and AE is the line segment that bisects BC. Find the coordinate of each midpoint created by each median (D, E, and F). | **G:** |  | |
| **R:** |  | |
| **A:** |  | |
| **S:** |  | |
| **P:** |  | |
| Use the description of a number line below to answer questions 5 – 6. Sketch the number line below before answering the questions.  *On a number line, point W is located at 3, X is located at –5, Y is located at –16, and Z is located at 11.* | | | |
| 5. What is the distance, in coordinate units, between points *W* and *Z*? | | | 6. What is the distance, in coordinate units, between points *Y* and *Z*? |
| 7. How much longer is *WY* than *XZ*? | | | 8. How much longer is *YZ* than *WX*? |
| 9. Which of the following best describes the points P, Q, and R?   1. The points P, Q, and R are collinear 2. The points P, Q, and R are non-collinear 3. The points P, Q, and R are on the plane R   Description: http://image.tutorvista.com/Qimages/QD/50323.gif   1. I only 2. II only 3. I, II, and III 4. III only | | | 10. Use the diagram below.    Name all the points on plane *P* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name all the points on plane *R* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name 3 collinear points \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name 3 non-collinear points \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 11. On a number line, what is the distance in coordinate units between point *R* at 5 and *Q* at 17? | | | 12. Line *AB* is bisected at point *C*. Find *BC* is if *AC* = 12 cm. |
| 13. A number line has the following points: point *M* at –7, point *N* at 10, point *K* at 2, and point *H* at –3. What is the difference in length between *MN* and *KH*? | | | 14. and  [image] |